



Replacement Sequence Listing
SEQUENCE LISTING

<110> KOHARA, Michinori
WATANABE, Tsunamasa
TAIRA, Kazunari
MIYAGISHI, Makoto
SUDO, Masayuki

<120> Oligoribonucleotide or Peptide Nucleic Acid Inhibiting the
Function of Hepatitis C Virus

<130> 382.1047

<140> PCT/JP04/000605

<141> 2004-01-23

<150> JP 2003/016750

<151> 2003-01-24

<160> 56

<170> PatentIn Ver. 2.1

<210> 1

<211> 500

<212> DNA

<213> Hepatitis C virus

<400> 1

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gtgcttgcca	gtgccccggg	aggtctcgta	gaccgtgcac	catgagcacg	aatcctaaac	360
ctcaaaaaaa	aaacaaacgt	aacaccaacc	gtcgcccaca	ggacgtcaag	ttcccgggtg	420
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gcgcgacgag	aaagacttcc					500

<210> 2

<211> 500

<212> DNA

<213> Hepatitis C virus

<400> 2

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ctagccgagt	agtgttggtg	cgcgaaaggc	cttgtggtac	tgcttgatag	ggtgcttgcg	300
agtgcctcgg	gaggtctcgt	agaccgtgca	ccatgagcac	gaatcctaaa	cctcaaagaa	360
aaaccaaacc	taacaccaac	cgccgcccac	aggacgtcaa	gttcccgggc	ggtggtcaga	420
tcgttggtgg	agtttacctg	ttgccgcgca	ggggccccag	gttgggtgtg	cgcgcgccca	480
ggaagacttc	cgagcggtcg					500

<210> 3

<211> 500

<212> DNA

<213> Hepatitis C virus

<400> 3

Replacement Sequence Listing

ttggggg	cga	cactccacca	tagatcactc	ccctgtgagg	aactactgtc	ttcacgcaga	60
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gagagccata	gtggtctg	gaaccgggtga	gtacaccgga	attgccagga	cgaccgggtc		180
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gccccgggag	gtctcgtaga	ccgtgcatca	tgagcacaaa	tcctaaacct	caaagaaaaa		360
ccaaacgtaa	caccaaccgc	cgcccacagg	acgttaagtt	cccgggcggt	ggtcagatcg		420
ttggtggagt	ttacctgttg	ccgcgcaggg	gccccaggtt	gggtgtgcgc	gcgactagga		480
agacttccga	gcggtcgcaa						500

<210> 4
 <211> 500
 <212> DNA
 <213> Hepatitis C virus

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ccgcgagact	gctagccgag	tagtgttggg	tcgcgaaagg	ccttgtggta	ctgcctgata	300
gggtgtcttg	gagtgccccg	ggaggtctcg	tagaccgtgc	atcatgagca	caaataccaa	360
accccaaaga	aaaaccaaac	gtaacaccaa	ccgtcgccca	caggacgtca	agttcccggg	420
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gcgcgcgact	aggaagactt					500

<210> 5
 <211> 500
 <212> DNA
 <213> Hepatitis C virus

acccgcccc	taataggggc	gacactccgc	catgaatcac	tcccctgtga	ggaactactg	60
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ccccctccc	gggagagcca	tagtgggtctg	cggaaccggg	gagtacaccg	gaattgccgg	180
gaagaccggg	tcctttcttg	gataaacccg	ctctatgccc	ggccatttgg	gcgtgcccc	240
gcaagactgc	tagccgagta	gcgttgggtt	gcgaaaggcc	ttgtggtact	gcctgatagg	300
gtgcttgcca	gtgccccggg	aggtctcgta	gaccgtgcac	catgagcaca	aatcctaaac	360
ctcaaagaaa	aacccaaaga	aacactaacc	gtcgcccaca	agacgttaag	tttcggggcg	420
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gcacagcaag	gaagacttcg					500

<210> 6
 <211> 500
 <212> DNA
 <213> Hepatitis C virus

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ccccctccc	gggagagcca	tagtgggtctg	cggaaccggg	gagtacaccg	gaattgccgg	180
gaagactggg	tcctttcttg	gataaaccca	ctctatgccc	ggccatttgg	gcgtgcccc	240
gcaagactgc	tagccgagta	gcgttgggtt	gcgaaaggcc	ttgtggtact	gcctgatagg	300
gtgcttgcca	gtgccccggg	aggtctcgta	gaccgtgcac	catgagcaca	aatcctaaac	360
ctcaaagaaa	aacccacaga	aacactaacc	gtcgcccaca	agacgttaag	tttcggggcg	420
gcggccagat	cgttggcgga	gtatacttgt	tgccgcgtag	gggcccctaga	ttgggtgtgc	480
gcacgacaag	gaagacttcg					500

<210> 7

Replacement Sequence Listing

<211> 500
<212> DNA
<213> Hepatitis C virus

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ccccctcccg ggagagccat agtgggtctgc ggaaccggtg agtacaccgg aattgccggg 180
aagactgggt cctttcttgg ataaacccac tctatgcccg gtcatttggg cgtgcccccg 240
caagactgct agccgagtag cgttgggttg cgaaaggcct tgtggtactg cctgataggg 300
tgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcacia atcctaaacc 360
tcaaagaaaa accaaaagaa acaccaaccg tcgcccacaa gacgttaagt ttccgggagg 420
cggccagatc gttggcgagg tatacttgtt gccgcgcagg ggccccagggt tgggtgtgag 480
cgcgacaagg aagacttcgg 500

<210> 8
<211> 500
<212> DNA
<213> Hepatitis C virus

<400> 8
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ccccctcccg ggagagccat agtgggtctgc ggaaccggtg agtacaccgg aattgccggg 180
aagactgggt cctttcttgg ataaacccac tctatgcccg gccatttggg cgtgcccccg 240
caagactgct agccgagtag cgttgggttg cgaaaggcct tgtggtactg cctgataggg 300
cgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcacia atcctaaacc 360
tcaaagaaaa accaaaagaa acaccaaccg tcgcccagaa gacgttaagt tcccgggagg 420
cggccagatc gttggcgagg tatacttgtt gccgcgcagg ggccccagggt tgggtgtgag 480
cacgacaagg aaaacttcgg 500

<210> 9
<211> 500
<212> DNA
<213> Hepatitis C virus

<400> 9
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ccccctccc gggagagcca tagtgggtct cggaaccggt gtagtacacc gaattgccgg 180
gaagactggg tcctttcttg gataaaccca ctctatgccc ggccatttgg gcgtgcccc 240
gcaagactgc tagccgagta gcggtgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
gtgcttgcga gtgccccggg aggtctcgtg gaccgtgcac catgagcaca aatcctaaac 360
ctcaaagaaa aaccacacaga aacactaacc ttcgcccaca agacgttaag tttccgggag 420
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gcacgacaag gaagacttcg 500

<210> 10
<211> 500
<212> DNA
<213> Hepatitis C virus

<400> 10
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ccccctcccg ggagagccat agtgggtctgc ggaaccggtg agtacaccgg aattgccggg 180
aagactgggt cctttcttgg ataaacccac tctatgcccg gccatttggg cgtgcccccg 240
caagaccgct agccgagtag cgttgggttg cgaaaggcct tgtggtactg cctgataggg 300
tgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcacia atcctaaacc 360
tcaaagacaa accaaaagaa acaccagccg tcgcccacaa gacgttaggt ttccgggagg 420

Replacement Sequence Listing

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cgcgacaagg aagacttcgg 500

<210> 11
<211> 500
<212> DNA
<213> Hepatitis C virus

<400> 11
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ccccctccc gggagagcca tagtggtctg cggaaccggt gaggacaccg gaattaccgg 180
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gcaagactgc tagccgagta gcgttgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
gtgcttgcca gtgccccggg aggtctcgta gaccgtgcat catgagcaca aatcctaaac 360
ctcaaagaaa aacaaaaaga aacacaaacc gccgccaca ggacgttaag ttcccgggtg 420
gcggtcagat cgttggcgga gtttacttgc tgccgcgcag gggccccagg ttgggtgtgc 480
gcgcgacaag gaagacttct 500

<210> 12
<211> 311
<212> DNA
<213> Hepatitis C virus

<400> 12
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catttcctgt tttttttttt tttttttttt tttttttctt ttttttttcc ttccctttcc 180
ttcttttttt cttttctttt tcccttcttt aatgggtggc ccatcttagc cctagtcacg 240
gctagctgtg aaaggtccgt gagccgcatg actgcagaga gtgctgatac tggcctctct 300
gcagatcatg t 311

<210> 13
<211> 371
<212> DNA
<213> Hepatitis C virus

<400> 13
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gctccccaac cgataaacgg ggagctaaac actccaggcc aataggccat ttcttttttt 180
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ctttcttttg tttttttttt ttttcttctt tttggtggct ccatcttagc cctagtcacg 300
gctagctgtg aaaggtccgt gagccgcatg actgcagaga gtgctgatac tggcctctct 360
gcagatcatg t 371

<210> 14
<211> 439
<212> DNA
<213> Hepatitis C virus

<400> 14
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ttcctttctca tttccttctt atcttaatta cttcctttcc tgggtggctcc atcttagccc 360
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Replacement Sequence Listing

439

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<210> 15

<211> 347

<212> DNA

<213> Hepatitis C virus

<400> 15

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ttctttcctg	gtggctccat	ccttagcccta	gtcacggcta	gctgtgaaag	gtccgtgagc	300
cgcgtgactg	cagagattgc	cgtaactggg	atctctgcag	atcatgt		347

<210> 16

<211> 360

<212> DNA

<213> Hepatitis C virus

<400> 16

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ttttttttct	ttccttcctt	tctcaccttc	ttttacttct	ttcctgggtg	ctccatctta	300
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<210> 17

<211> 378

<212> DNA

<213> Hepatitis C virus

<400> 17

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cttttttttt	tttttttttt	tttttttttt	tttttttttt	ttttcttttt	tttttttttc	240
cctctttctt	cccttctcat	cttattctac	tttctttctt	ggtggctcca	tcttagccct	300
agtcacggct	agctgtgaaa	gggtccgtgag	ccgcatgact	gcagagagtg	ccgtaactgg	360
tctctctgca	gatcatgt					378

<210> 18

<211> 374

<212> DNA

<213> Hepatitis C virus

<400> 18

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acggctagct	gtgaaagggtc	cgtgagccgc	atgactgcag	agagtgccgt	aactgggtctc	360
tctgcagatc	atgt					374

<210> 19

<211> 354

Replacement Sequence Listing

<212> DNA

<213> Hepatitis C virus

<400> 19

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tctttttact ccccgctcgg tagagcggca aaccctagct acactccata gctagttttc 180
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tttttcctct tttcttggtg gctccatctt agccctagtc acggctagct gtgaaaggtc 300
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<210> 20

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 20

ggaacuacug ucuucacgca g 21

<210> 21

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 21

gccauagugg ucugcggaac c 21

<210> 22

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 22

aggccuugug guacugccug au 22

<210> 23

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 23

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<210> 24

<211> 21

<212> DNA

Replacement Sequence Listing

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 24

gcgaaaggcc uugugguacu g

21

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 25

gucucguaga ccgugcacca

20

<210> 26

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 26

gucucguaga ccgugcauca u

21

<210> 27

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 27

ggaacuacug ucuucacgca g

21

<210> 28

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 28

gccauagugg ucugcggaac c

21

<210> 29

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

Replacement Sequence Listing

<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 29
aggccuugug guacugccug au 22

<210> 30
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 30
gucucguaga ccgugcauca 20

<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 31
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<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 5'-UTR target siRNA

<400> 32
gucucguaga ccgugcacca 20

<210> 33
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 3'-UTR target siRNA

<400> 33
ggcuccaucu uagcccuagu c 21

<210> 34
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 3'-UTR target siRNA

<400> 34

Replacement Sequence Listing

ggcuagcugu gaaagguccg u 21

<210> 35
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds5-41-S25

<400> 35
actcccctgt gaggaactac tgtct 25

<210> 36
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds3-8864-S25

<400> 36
aggatgattc tgatgaccca tttct 25

<210> 37
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds3-9267-S23

<400> 37
gcgggggaga catatatcac agc 23

<210> 38
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds5-201-S25

<400> 38
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<210> 39
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds5-261-S25

Replacement Sequence Listing

<p><400> 39 tagtggtggg tcgcgaaagg ccttg</p> <p><210> 40 <211> 25 <212> DNA <213> Artificial Sequence</p> <p><220> <223> Description of Artificial Sequence:primer Ds5-311-S25</p>	<p>25</p>
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Replacement Sequence Listing

<223> Description of Artificial Sequence:primer
Ds3-9611-R23

<400> 44
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<210> 45
<211> 23
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer
Ds5-397-R23

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<210> 46
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
Ds5-360-R25

<400> 46
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<210> 47
<211> 572
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR product
siRNA-1

<400> 47
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siRNA-2

Replacement Sequence Listing

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<210> 49

<211> 674

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR product
siRNA-3

<400> 49

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<210> 50

<211> 748

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR product
siRNA-4

<400> 50

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Replacement Sequence Listing

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR product
siRNA-5

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<210> 52
<211> 345
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR product
siRNA-6

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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR product
siRNA-7

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gtaacaccaa ccgccgc 197

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<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR product
Page 13

Replacement Sequence Listing

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<210> 55
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR product
siRNA-9

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<210> 56
<211> 9611
<212> DNA
<213> Hepatitis C virus

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Replacement Sequence Listing

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Replacement Sequence Listing

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